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Signals, Systems and Computers, 1993. 1993 Conference Record of The Twenty-Seventh Asilomar Conference on , 1-3 Nov. 1993

Pages:1091 - 1095 vol.2

[\[Abstract\]](#)[\[PDF Full-Text \(280 KB\)\]](#)

IEEE CNF

**2 On determining the optimum modulation index for reverse path lasers hybrid fiber/coax networks***West, L.E.;*

Photonics Technology Letters, IEEE , Volume: 8 , Issue: 11 , Nov. 1996

Pages:1555 - 1557

[\[Abstract\]](#)[\[PDF Full-Text \(256 KB\)\]](#)

IEEE JNL

**3 Detection of broadband planewaves in the presence of Gaussian noise unknown covariance: asymptotically optimum tests using the 2-D autoregressive noise model***Baggenstoss, P.M.; Kay, S.M.;*

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] , Volume: 43 , Issue: 4 , April 1995

Pages:950 - 966

[\[Abstract\]](#)[\[PDF Full-Text \(1348 KB\)\]](#)

IEEE JNL

**4 Impact of noise on amplitude-phase measurement precision and improvement of microwave receiver***Dong Yu-liang; He Guo-yu; Tan Zhi;*

Microwave and Millimeter Wave Technology, 2002. Proceedings. ICMMT 2002. 2002 3rd International Conference on , 17-19 Aug. 2002

Pages:126 - 129

[\[Abstract\]](#) [\[PDF Full-Text \(265 KB\)\]](#) IEEE CNF

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**5 Parameter distributions for speech signals modeled with spherically invariant random processes**

*De Leon, P.; Hui Jiang;*

Circuits and Systems, 1999. 42nd Midwest Symposium on , Volume: 1 , 8-11 A 1999

Pages:245 - 248 vol. 1

[\[Abstract\]](#) [\[PDF Full-Text \(332 KB\)\]](#) IEEE CNF

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**6 Partition noise in semiconductor lasers under CW and pulsed operation**

*Jensen, N.; Olesen, H.; Stubkjaer, K.;*

Quantum Electronics, IEEE Journal of , Volume: 23 , Issue: 1 , Jan 1987

Pages:71 - 80

[\[Abstract\]](#) [\[PDF Full-Text \(2800 KB\)\]](#) IEEE JNL

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**7 Homodyned-K fluctuation model**

*Drumheller, D.M.; Lew, H.;*

Aerospace and Electronic Systems, IEEE Transactions on , Volume: 38 , Issue: 1 , April 2002

Pages:527 - 542

[\[Abstract\]](#) [\[PDF Full-Text \(1358 KB\)\]](#) IEEE JNL

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**8 Incoherent radar detection in compound-Gaussian clutter**

*Conte, E.; Lops, M.; Ricci, G.;*

Aerospace and Electronic Systems, IEEE Transactions on , Volume: 35 , Issue: 1 , July 1999

Pages:790 - 800

[\[Abstract\]](#) [\[PDF Full-Text \(872 KB\)\]](#) IEEE JNL

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**9 On combining schemes for W-CDMA RAKE reception in the presence of interpath interference**

*Tantikovit, S.; Wang, M.Z.; Sheikh, A.U.H.;*

Wireless Communications, 2001. (SPAWC '01). 2001 IEEE Third Workshop on Signal Processing Advances in , 20-23 March 2001

Pages:5 - 8

[\[Abstract\]](#) [\[PDF Full-Text \(368 KB\)\]](#) IEEE CNF

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**10 An online algorithm for blind source separation with Gaussian mixture model**

*Ohata, M.; Tokunari, T.; Matsuoka, K.;*

Adaptive Systems for Signal Processing, Communications, and Control Symposium 2000. AS-SPCC. The IEEE 2000 , 1-4 Oct. 2000

Pages:375 - 378

[\[Abstract\]](#) [\[PDF Full-Text \(304 KB\)\]](#) IEEE CNF

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**11 Parameter estimation for autoregressive Gaussian-mixture processes: the EMAX algorithm**

*Verbout, S.M.; Ooi, J.M.; Ludwig, J.T.; Oppenheim, A.V.;*  
Acoustics, Speech, and Signal Processing, 1997. ICASSP-97., 1997 IEEE  
International Conference on , Volume: 5 , 21-24 April 1997  
Pages:3549 - 3552 vol.5

[\[Abstract\]](#)   [\[PDF Full-Text \(452 KB\)\]](#)   **IEEE CNF**

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1 Performance evaluation of optimum combining and maximal ratio combining interference and channel correlation for wireless communication systems

Jian Cui, David D. Falconer, Asrar U. H. Sheikh

December 1997

Mobile Networks and Applications, Volume 2 Issue 4

Full text available: pdf(768.31 KB)

Additional Information: full citation, abstract, reference

Antenna diversity is an important technique to combat fading and reduce co-channel interference. This paper presents an analytical approach to derive bit error rate (BER) for Optimum Combining (MRC) in the presence of CCI. The paper has two parts. In the first part, the analysis of MRC with an arbitrary number of interferers is presented for M-ary PSK modulation under the assumption that the channel is Rayleigh fading.

2 Subspace methods for blind joint channel estimation and multiuser detection

Xiaodong Wang, H. Vincent Poor

January 2000

Wireless Networks, Volume 6 Issue 1

Full text available: pdf(249.64 KB)

Additional Information: full citation, abstract, reference


Recently developed subspace techniques for blind adaptive multiuser detection and channel estimation are considered, as well as extensions of these techniques to frequency selective fading channels. In addition, subspace-based nonlinear multiuser detection in non-Rayleigh fading channels is considered.

### 3 Non-photorealistic rendering: Fast primitive distribution for illustration

Adrian Secord, Wolfgang Heidrich, Lisa Streit

July 2002

Proceedings of the 13th Eurographics workshop on Rendering

Full text available:  pdf(1.64 MB)

Additional Information: full citation, abstract, references

In this paper we present a high-quality, image-space approach to illustration that probabilistically distributing primitives while maintaining interactive rates. Our rendering coherence by matching movements of primitives with changes in the input image drawing styles by varying the primitive type or direction. We show that our approach (depending on the drawing style) high ...

### 4 Latency analysis of the totem single-ring protocol

Efstathios Thomopoulos, Louise E. Moser, Peter M. Melliar-Smith

October 2001

IEEE/ACM Transactions on Networking (TON), Volume 9 Issue

Full text available:  pdf(285.54 KB)

Additional Information: full citation, abstract, references

The Totem single-ring protocol provides reliable totally ordered multicasting of messages over a single local-area network (LAN) using a logical token-passing ring. The protocol guarantees delivery: delivery in agreed order and delivery in safe order. This paper presents an analysis for the latency to message delivery for the Totem single-ring protocol for these two cases. Both message delivery and ...

Keywords: Message delivery latency, multicast protocols, performance modeling functions

### 5 Process variation: Statistical timing analysis using bounds and selective enumeration

Aseem Agarwal, David Blaauw, Vladimir Zolotov, Sarma Vrudhula

December 2002

Proceedings of the 8th ACM/IEEE international workshop on Timing in digital systems

Full text available:  pdf(272.48 KB)

Additional Information: full citation, abstract, references

The growing impact of within-die process variation has created the need for statistical timing analysis. Variations are modeled as random variables. Statistical timing analysis has traditionally suffered from exponential complexity with circuit size, due to the dependencies created by reconverging paths. We propose a new approach to statistical timing analysis which uses statistical bounds to propagate these bounds. First, we present ...

**6 Analysis of analytical mobility models with respect to the applicability for handover of signaling cost**

Enrico Jugl, Holger Boche

August 2000 Proceedings of the 6th annual international conference on Mobile computing and networking

Full text available:  pdf(676.96 KB)

Additional Information: full citation, abstract, references, index terms

This paper analyzes two analytical mobility models for their suitability to handover signaling cost. Some insufficiencies of the often employed Hong/Rappaport model occur which is not suitable for performance evaluation of mobile communication handover modeling is not possible. To prevent infinite dwell times, an universal dwell time is derived. The biased sampling ...

**7 Histogram editing for semi-quantitative data input in interactive simulations**

R. R. Ron Goforth

March 1993 Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing

Full text available:  pdf(564.24 KB)

Additional Information: full citation, references, index terms

Keywords: AIDS, HIV, histograms, probability density functions

**8 Delay jitter first-order and second-order statistical functions of general traffic**

Cathy A. Fulton, San-qi Li

April 1998 IEEE/ACM Transactions on Networking (TON), Volume 6 Issue 2

Full text available:  pdf(469.42 KB)

Additional Information: full citation, references, citations

Keywords: QBD analysis, autocorrelation function, cell delay variation, jitter, multiplexing

**9 Session 3: Wirelength Prediction: Prediction of interconnect pattern density and applications**

Payman Zarkesh-Ha, Ken Doniger, William Loh, Peter Wright

April 2003 Proceedings of the 2003 international workshop on System-level interconnect prediction

Full text available:  pdf(388.97 KB)

Additional Information: full citation, abstract, references, index terms

A rigorous derivation of the interconnect pattern density distribution for random Bernoulli probability distribution. The derived analytical model provides a statistical distribution for a given wiring layer. Sampling window size, average wire length, wiring utilization are the input parameters. Monte-Carlo simulations agree with test product data shows that ...

Keywords: Stochastic model, interconnect network prediction, interconnect pattern density

**10 Mobility, Modeling, and Management: Stochastic properties of the random length, direction distribution, and cell change rate**

Christian Bettstetter, Hannes Hartenstein, Xavier Pérez-Costa

September 2002 Proceedings of the 5th ACM international workshop on Modeling and mobile systems

Full text available:  pdf(697.91 KB)

Additional Information: full citation, abstract, references,

The random waypoint model is a commonly used mobility model for simulations. In this paper, we present analytical derivations of some fundamental stochastic properties: (a) the length and duration of a movement epoch, (b) the chosen direction angle at the end of the epoch, (c) the cell change rate of the random waypoint mobility model when used within a network. Results and methods can be ...

Keywords: analysis of mobile networks, mobility modeling, modeling and simulation

**11 Statistical interconnect prediction: A statistical model for estimating the effect of noise**

Maurizio Martina, Guido Masera

February 2004 Proceedings of the 2004 international workshop on System level in

Additional Information: full citation, abstract, references, index terms

Noise violation analysis due to crosstalk is recognized as one of the most challenging problems in VLSI design. Besides statistical techniques seem to be a promising approach both for analysis and synthesis. In this work a general closed form for the voltage distribution on the victim line, considering the statistical distributions of the aggressor signals, is derived. Experimental results show that the proposed methodology can be used for the analysis of process variations ...

Keywords: interconnects modeling, statistical analysis

**12 Network optimization with stochastic traffic flows**

Xian Liu

July 2002 International Journal of Network Management, Volume 12 Issue 4

Full text available:  pdf(167.07 KB)

Additional Information: full citation, abstract, references,

Conventional management optimization models are being challenged by the evolution of network traffic. It is necessary to incorporate the stochastic effect of traffic flows into network management. Stochastic programming (SP) methodology to characterize the stochastic traffic flows, and flow assignment, are proposed. One of the SP approaches, the presented models. Simulation results ...



**13 Paging area optimization based on interval estimation in wireless personal**

Zhuyu Lei, Cem U. Saraydar, Narayan B. Mandayam

March 2000

Mobile Networks and Applications, Volume 5 Issue 1

Full text available:  pdf(286.16 KB)

Additional Information: full citation, abstract, reference

We consider an optimum personal paging area configuration problem to improve mobile networks. The approach is to set up the boundaries of a one-step paging mobile user with a high probability and to adjust the boundaries to gain a coverage time-varying mobility pattern. We formulate the problem as an interval estimation

**14 Leakage estimation: Statistical estimation of leakage current considering in**

Rajeev Rao, Ashish Srivastava, David Blaauw, Dennis Sylvester

August 2003

Proceedings of the 2003 international symposium on Low power electronics and design

Full text available:  pdf(306.56 KB)

Additional Information: full citation, abstract, reference

We develop a method to estimate the variation of leakage current due to both process variability. We derive an analytical expression to estimate the probability density function of the leakage current for stacked devices found in CMOS gates. These distributions of individual gate leakage current are used to estimate the mean and variance of the leakage current for an entire circuit. We also present inter- and intra-gate variability

Keywords: Monte Carlo, leakage current, variability

**15 Mobility: PATHS: analysis of PATH duration statistics and their impact on network**

Narayanan Sadagopan, Fan Bai, Bhaskar Krishnamachari, Ahmed Helmy

June 2003

Proceedings of the 4th ACM international symposium on Mobile ad hoc networking and computing

Full text available:  pdf(311.57 KB)

Additional Information: full citation, abstract, reference

We develop a detailed approach to study how mobility impacts the performance of a network. In particular we examine how the statistics of path durations including PDFs vary with network model, relative speed, number of hops, and radio range. We find that at low speeds there are multi-modal distributions that reflect the characteristics of the spatial map, mobility pattern, and traffic pattern. However, at high speeds the path durations are more uniform

Keywords: mobile ad hoc network, mobility, path duration, performance

**16 Simulating heavy tailed processes using delayed hazard rate twisting**

Sandeep Juneja, Perwez Shahabuddin

April 2002 ACM Transactions on Modeling and Computer Simulation (TOMACS), V

Full text available:  pdf(243.24 KB)

Additional Information: full citation, abstract, references,

Consider the problem of estimating the small probability that the maximum of a when the process has a negative drift and the underlying random variables may their tail distribution decays at a subexponential rate. We consider one class of estimating the ruin probability associated with insurance claim processes with sl and in estimating th ...

Keywords: Hazard rate twisting, heavy tailed distributions, importance sampling variance reduction

**17 A delay metric for RC circuits based on the Weibull distribution**

Frank Liu, Chandramouli Kashyap, Charles J. Alpert

November 2002 Proceedings of the 2002 IEEE/ACM international conference on C

Full text available:  pdf(114.27 KB)

Additional Information: full citation, abstract, references,

Physical design optimizations such as placement, interconnect synthesis, oorplai accurate analysis of RC networks. Because of its simple close form and fast eval widely adopted. The recently proposed delay metrics PRIMO and H-gamma mat probability density function of a Gamma statistical distribution. Although these r compared to other delay metric ...

**18 Multimedia streaming and services: Comprehensive statistical admission co**

Roger Zimmermann, Kun Fu

November 2003 Proceedings of the eleventh ACM international conference on M

Full text available:  pdf(1.93 MB)

Additional Information: full citation, abstract, reference

Streaming media servers and digital continuous media recorders require the sch real time. There are two accepted paradigms to achieve this: deterministic or st assume larger bounds on such disk parameters as the seek time, the rotational guarantee the timely service of I/O requests. The statistical approach generally exchange for a residu ...

Keywords: admission control, disk performance, statistical modeling, streaming

**19 Coping with variability: the end of deterministic design: Computation and Random Circuit Delay**

Aseem Agarwal, David Blaauw, Vladimir Zolotov, Sarma Vrudhula

June 2003

Proceedings of the 40th conference on Design automation

Full text available:  pdf(175.56 KB)

Additional Information: full citation, abstract, references,

The growing impact of within-die process variation has created the need for statistical models that are modeled as random variables. Statistical timing analysis has traditionally suffered from exponential complexity with circuit size, due to arrival time dependencies created by reconverging fanouts. In this paper, we propose a new approach to statistical timing analysis that is based on statistical bounds. These bounds have ...

**20 PRIMO: probability interpretation of moments for delay calculation**

Rony Kay, Lawrence Pileggi

May 1998

Proceedings of the 35th annual conference on Design automation conference

Full text available:  pdf(253.98 KB)

Additional Information: full citation, abstract, references,

Moments of the impulse response are widely used for interconnect delay analysis. The first moment of the impulse response) expression, to moment matching methods which use first and second order transfer function approximations. However, the Elmore delay is fast becoming obsolete with modern technologies, and reduced order transfer function delays are impractical for use in design optimization cost functions ...

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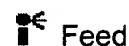
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**21 A LOTOS extension for the performance analysis of distributed systems**

Marco Ajmone Marsan, Andrea Bianco, Luigi Ciminiera, Riccardo Sisto, Adriano Val  
April 1994 IEEE/ACM Transactions on Networking (TON), Volume 2 Issue 2

Full text available: pdf(1.59 MB)

Additional Information: full citation, references, citings, index terms

**22 A discrete-time paradigm to evaluate skew performance in a multimedia AT**

Alifo Lombardo, Giacomo Morabito, Giovanni Schembra  
February 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 1

Full text available: pdf(791.66 KB)

Additional Information: full citation, references, citings, index terms

Keywords: ATM, Markov models, multimedia, performance evaluation, skew

**23 Hidden issues in the simulation of fixed wireless systems**

Dan Avidor, Sayandev Mukherjee  
March 2001 Wireless Networks, Volume 7 Issue 2

Full text available: pdf(219.99 KB) Additional Information: full citation, index terms

**24 Sensitivity analysis of discrete event systems with autocorrelated inputs**

Benjamin Melamed, Reuven Y. Rubinstein

December 1992 Proceedings of the 24th conference on Winter simulation


Full text available:  pdf(646.83 KB)

Additional Information: full citation, references, index terms

**25 Performance analysis of checkpointing strategies**

Asser N. Tantawi, Manfred Ruschitzka

May 1984 ACM Transactions on Computer Systems (TOCS), Volume 2 Issue 2

Full text available:  pdf(1.15 MB)


Additional Information: full citation, references, citings, in

Keywords: database recovery, equicost checkpointing strategy, equidistant checkpointing strategy, performance modeling and optimization, rollback recovery, system availability

**26 A comparison of selectivity estimators for range queries on metric attributes**

Björn Blohsfeld, Dieter Korus, Bernhard Seeger

June 1999 ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Database Management  
Volume 28 Issue 2

Full text available:  pdf(1.53 MB)

Additional Information: full citation, abstract, references, c

In this paper, we present a comparison of nonparametric estimation methods for the selectivities of queries, in particular range queries. In contrast to previous studies, we consider metric attributes with large domains which occur for example in spatial and temporal data. Only small sample sets of the required relations are available for estimating the selectivities. We compare histogram estimators, on ...

**27 Analysis of performance impact caused by power supply noise in deep submicron**

Yi-Min Jiang, Kwang-Ting Cheng

June 1999 Proceedings of the 36th ACM/IEEE conference on Design automation conference


Full text available:  pdf(153.12 KB)

Additional Information: full citation, references, citings, index terms

**28 Density-based indexing for approximate nearest-neighbor queries**

Kristin P. Bennett, Usama Fayyad, Dan Geiger

August 1999 Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available:  pdf(1.29 MB)

Additional Information: full citation, references, citings, in

## 29 Rendering: Scalable photon splatting for global illumination

Fabien Lavignotte, Mathias Paulin

February 2003 Proceedings of the 1st international conference on Computer graphics and South East Asia

Full text available:  pdf(11.11 MB)

Additional Information: full citation, abstract, reference


In this paper, we present a new image based method for computing efficiently global illumination on graphics hardware. We propose a two pass method to compute global lighting at each pixel. In the first pass, from the light sources and their hit points are stored. Then, in the second pass, an image is generated to reconstruct the irradiance. The main advantages of our method in comparison with previous methods are its scalability. Indeed, it can be used on a wide range of hardware.

Keywords: density estimation, global illumination, graphics hardware, photon tracing

## 30 Delivery of time-critical messages using a multiple copy approach

Parameswaran Ramanathan, Kang G. Shin

May 1992 ACM Transactions on Computer Systems (TOCS), Volume 10 Issue 1

Full text available:  pdf(1.37 MB)

Additional Information: full citation, abstract, references, citing

Reliable and timely delivery of messages between processing nodes is essential for many real-time systems. To deliver a message within its deadline usually forces the system to undertake a high cost (or overhead) to the system. This recovery cost can be very high, especially in the presence of a lack of time or resources. Proposed in this paper is a scheme to minimize the expected recovery cost.

Keywords: dynamic failure, time-constrained communication

## 31 Simulation and implementation issues: Sound mobility models

Jungkeun Yoon, Mingyan Liu, Brian Noble

September 2003 Proceedings of the 9th annual international conference on Mobile Computing and Networking

Full text available:  pdf(261.50 KB)

Additional Information: full citation, abstract, reference


Simulation has become an indispensable tool in the construction and evaluation of mobility models that describe constituent movement, one can explore large systems, propose and compare alternatives. Unfortunately, the vast majority of mobility models---including those that choose distance or destination are chosen independently---suffer from *decay*; average performance degrades over long-term average.

Keywords: mobility model, renewal process, stationary distribution

**32 A distribution-free random number generator via a matrix-exponential repre**

Edward F. Brown

March 1992 Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing

Full text available:  pdf(1.12 MB)

Additional Information: full citation, references, in

**33 Existence theorems, lower bounds and algorithms for scheduling to meet tv**

April Rasala, Cliff Stein, Eric Torng, Patchrawat Uthaisombut

January 2002 Proceedings of the thirteenth annual ACM-SIAM symposium on Dis

Full text available:  pdf(860.96 KB)

Additional Information: full citation, abstract

We give general results about the existence of schedules which simultaneously r  
general in that (i) they apply to any scheduling environment and (ii) they apply  
metric is one of maximum flow time, makespan, or maximum lateness and the s  
average completion time, average lateness, or number of on-time jobs. For mos  
show the existence of n ...

**34 Efficient bit-error-rate estimation of multicarrier transceivers**

G. Vandersteen, P. Wambacq, Y. Rolain, J. Schoukens, S. Donnay, E. Engels, I. Bo

March 2001 Proceedings of the conference on Design, automation and test in Europ

Full text available:  pdf(160.36 KB)

Additional Information: full citation, references

**35 Diversity reception in a multihop packet radio network**

Victor Wong, Cyril Leung

March 2000 Mobile Networks and Applications, Volume 5 Issue 1

Full text available:  pdf(158.97 KB)

Additional Information: full citation, abstract, references, c

The performance improvement which results from the use of multiple antennas  
network is examined. Four transmission strategies based on three previously pr  
routing scheme, MTP, are studied. It is found that the use of two antennas can i  
transmission strategies by about 25% in a Rayleigh fading environment. The tra  
routing scheme is shown to be general ...

**36 Simulating heavy tailed processes using delayed hazard rate twisting**

Sandeep Juneja, Perwez Shahabuddin, Anurag Chandra

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation

Full text available:  pdf(93.47 KB)

Additional Information: full citation, references, citings,

**37 Interconnect noise avoidance methodologies & slew rate prediction: Simple based on two circuit moments**

Kanak Agarwal, Dennis Sylvester, David Blaauw

June 2003

Proceedings of the 40th conference on Design automation

Full text available:  pdf(187.90 KB)

Additional Information: full citation, abstract, references

In this paper we introduce simple metrics for the slew rate of an RC circuit based on two circuit moments. We develop two new slew metrics, *S2M* (slew with 2 moments) and *scaled S2M*, the advantage of simple closed form expressions. *S2M* is very accurate for middle as well as for near end nodes. *Scaled S2M* is developed to improve upon *S2M* for near as well as for far end nodes.

**38 Queries and aggregation: Cleaning and querying noisy sensors**

Eiman Elnahrawy, Badri Nath

September 2003

Proceedings of the 2nd ACM international conference on Wireless security

Full text available:  pdf(256.08 KB)

Additional Information: full citation, abstract, references

Sensor networks have become an important source of data with numerous applications in many domains as well as industrial applications and traffic control. Unfortunately, sensor networks are subject to errors such as noise from external sources, hardware noise, inaccuracies and imprecise effects. Such errors may seriously impact the answer to any query posed to the network.

Keywords: bayesian theory, noisy sensors, query evaluation, statistics, uncertainty

**39 Special issue on independent components analysis: A maximum likelihood separation**

Gil-Jin Jang, Te-Won Lee

December 2003

The Journal of Machine Learning Research, Volume 4

Full text available:  pdf(1.07 MB)

Additional Information: full citation, abstract, references

This paper presents a new technique for achieving blind signal separation when the main concept is based on exploiting *a priori* sets of time-domain basis functions analysis (ICA) to the separation of mixed source signals observed in a single channel. The sound sources is reflected in the ICA basis functions, which encode the sources and their spatial locations.

**40 Prioritized statistical multiplexing of PCM sources**

Ming H. Chan, John P. Princen

October 1995

IEEE/ACM Transactions on Networking (TON), Volume 3 Issue 5




Full text available:  pdf(1.08 MB)

Additional Information: full citation, references, index terms



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#### 41 General random number generator [G5]

Edgar L. Butler

January 1970

Communications of the ACM, Volume 13 Issue 1

Full text available: pdf(691.43 KB)

Additional Information: full citation, references, c

Keywords: cumulative density function, probability density function, random nur

#### 42 A model to evaluate the effects of the BWB mechanism in a DQDB network

M. Conti, E. Gregori, L. Lenzini

April 1992

Proceedings of the 1992 ACM annual conference on Communication:

Full text available: pdf(860.80 KB)

Additional Information: full citation, abstract, referenc

This paper analyzes how the BWB mechanism influences the status of slots travel process) in a DQDB network. To capture the most important dependencies between load [CONTI91c] we have modeled the slot-occupancy-pattern process via a discrete-time Markov chain. In this paper we use a simplified DQDB network [CONTI91b] for which we derive a density function...

**43 XML query processing I: Evaluating probabilistic queries over imprecise data**

Reynold Cheng, Dmitri V. Kalashnikov, Sunil Prabhakar

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on on I

Full text available:  pdf(296.12 KB)

Additional Information: full citation, abstract, reference

Many applications employ sensors for monitoring entities such as temperature a tracks these entities to enable query processing. Due to continuous changes in t network bandwidth and battery power), it is often infeasible to store the exact v exists for moving object environments that track the constantly changing locatio possible for databas ...

**44 Monte Carlo evaluation of non-linear scattering equations for subsurface re**

Matt Pharr, Pat Hanrahan

July 2000 Proceedings of the 27th annual conference on Computer graphics and ir

Full text available:  pdf(922.18 KB)

Additional Information: full citation, abstract, references,

We describe a new mathematical framework for solving a wide variety of render integral scattering equation. This framework treats the scattering functions of cc rendering primitives; these scattering functions accurately account for all scatte new techniques for computing scattering functions from the composition of scati solution techniques base ...

Keywords: Chandrasehkar's equation, Monte Carlo techniques, adding equations invariant imbedding, principles of invariance, reflectance and shading models, re

**45 Predictive distance-based mobility management for multidimensional PCS**

Ben Liang, Zygmunt J. Haas

October 2003 IEEE/ACM Transactions on Networking (TON), Volume 11 Issue

Full text available:  pdf(979.42 KB)

Additional Information: full citation, abstract, reference

This paper presents a mobile tracking scheme that exploits the predictability of networks. In this scheme, a mobile's future location is predicted by the network the mobile's recent report of location and velocity. When a call is made, the netw the predicted location. A mobile makes the same location prediction as the netw periodically and re ...

Keywords: Gauss-Markov model, distance-based location management, dynamic mobility pattern, predictive mobility management, random walk, wireless netwo

**46 Performance analysis of a multimedia synchronization mechanism based on a shared buffer environment**

Aurelio La Corte, Alfio Lombardo, Sergio Palazzo

January 2000

ACM SIGMOBILE Mobile Computing and Communications Review, \

Full text available:  pdf(1.63 MB)

Additional Information: full citation, abstract, index


In a mobile communication system network performance varies considerably with the network conditions. This paper strongly impacts the design of the buffer compensation based techniques usually used in shared buffer environments for minimizing probability of asynchronism between the different multimedia flows. This paper provides an analytical paradigm for dimensioning synchronization buffers in both wired and the wireless networks when network conditions are variable.

**47 On the performance of packet-switched cellular networks for wireless data**

Jean-Paul M. G. Linnartz

February 1995

Wireless Networks, Volume 1 Issue 2

Full text available:  pdf(1.12 MB)

Additional Information: full citation, abstract, references


Cellular frequency reuse is known to be an efficient method to allow many wireless users to share the same frequency band. However, for wireless data and multi-media communications, the performance of the current solutions for telephone systems. We argue that wireless radio systems should use the entire bandwidth in each cell. Packet queuing delays are derived for a network with fading, shadowing, path loss and interference.

**48 Waiting algorithms for synchronization in large-scale multiprocessors**

Beng-Hong Lim, Anant Agarwal

August 1993

ACM Transactions on Computer Systems (TOCS), Volume 11 Issue 4

Full text available:  pdf(2.72 MB)

Additional Information: full citation, abstract, references, citations


Through analysis and experiments, this paper investigates two-phase waiting algorithms for synchronization in large-scale multiprocessors. In a two-phase algorithm, a thread must wait for a synchronization variable. If the cost of polling reaches a limit  $L_{poll}$  and further waiting is incurring an additional fixed cost,  $B$ . The choice of  $L_{poll}$  and  $B$  affects the performance of the algorithm.

**Keywords:** barriers, blocking, competitive analysis, locks, producer-consumer problem, synchronization, time

**49 Performance measurement and trace driven simulation of parallel CAD and multicomputer**

Jiun-Ming Hsu, Prithviraj Banerjee

May 1990 ACM SIGARCH Computer Architecture News , Proceedings of the 17th annual Computer Architecture, Volume 18 Issue 3

Full text available:  pdf(1.21 MB)

Additional Information: full citation, abstract, references, citations

This paper presents the performance evaluation, workload characterization and multi-computer running realistic workloads. Six representative parallel applications. Software monitoring techniques were then used to collect execution traces. Basic investigated both the computation and communication behavior of these parallel computation task granularity, message ...

**50 Remark on algorithm 347 [M1]: an efficient algorithm for sorting with minimal**

Robin Griffin, K. A. Redish

January 1970 Communications of the ACM, Volume 13 Issue 1

Full text available:  pdf(691.43 KB)

Additional Information: full citation, references, citations

Keywords: digital computer sorting, minimal storage sorting, sorting

**51 Remark on algorithm 282 [S22] derivatives of  $e^x/x$ ,  $\cos(x)/x$ , and  $\sin(x)/x$**

Walter Gautschi, Bruce J. Klein

January 1970 Communications of the ACM, Volume 13 Issue 1

Full text available:  pdf(691.43 KB)

Additional Information: full citation, references, citations

Keywords: error control, recursive computation, successive derivatives

**52 Algorithm 372: An algorithm to produce complex primes, CSIEVE [A1]**

K. B. Dunham

January 1970 Communications of the ACM, Volume 13 Issue 1

Full text available:  pdf(691.43 KB)

Additional Information: full citation, citations

Keywords: complex numbers, primes

**53 Algorithm 371: Partitions in natural order [A1]**

J. K. S. McKay

January 1970 Communications of the ACM, Volume 13 Issue 1

Full text available:  pdf(691.43 KB) Additional Information: full citation, references

Keywords: number theory, partitions

**54 Algorithm 369: Generator of random numbers satisfying the Poisson distrib**

Henry E. Schaffer

January 1970 Communications of the ACM, Volume 13 Issue 1

Full text available:  pdf(691.43 KB) Additional Information: full citation, references

Keywords: Poisson distribution, random number generator

**55 Algorithm 368: Numerical inversion of Laplace transforms [D5]**

Harald Stehfest

January 1970 Communications of the ACM, Volume 13 Issue 1

Full text available:  pdf(691.42 KB) Additional Information: full citation, references, citings

Keywords: Laplace transform inversion, integral equations, integral transformati

**56 The "DGX" distribution for mining massive, skewed data**

Zhiqiang Bi, Christos Faloutsos, Flip Korn

August 2001 Proceedings of the seventh ACM SIGKDD international conference on k

Full text available:  pdf(578.24 KB) Additional Information: full citation, abstract

Skewed distributions appear very often in practice. Unfortunately, the traditional methods do not handle them well. In this paper, we propose a new probability distribution, the Discrete Geometric X (DGX), which fits excellent fits in a wide variety of settings; our new distribution includes the Zipf distribution as a special case. We apply a statistically sound method for estimating the DGX parameters based on maximum likelihood estimation applied DGX to a ...


Keywords: DGX, Zipf's law, frequency-count plot, lognormal distribution, maximum likelihood detection, rank-frequency plot

## 57 Shape distributions

Robert Osada, Thomas Funkhouser, Bernard Chazelle, David Dobkin

October 2002

ACM Transactions on Graphics (TOG), Volume 21 Issue 4

Full text available:  pdf(3.46 MB)

Additional Information: full citation, abstract, references, ci

Measuring the similarity between 3D shapes is a fundamental problem, with applications in computer vision, molecular biology, and a variety of other fields. A challenging aspect of this problem is to find a signature that can be constructed and compared quickly, while still discriminating between different shapes. In this paper, we propose and analyze a method for computing shape signatures for (non-degenerate) 3D polygonal models. The ...

Keywords: Shape analysis, shape representation

## 58 A resource estimation and call admission algorithm for wireless multimedia concept

David A. Levine, Ian F. Akyildiz, Mahmoud Naghshineh

February 1997

IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 1

Full text available:  pdf(450.43 KB)

Additional Information: full citation, references, citing

Keywords: active mobile probability, call admission, resource allocation, shadow

## 59 Model checking stochastic automata

Jeremy Bryans, Howard Bowman, John Derrick

October 2003

ACM Transactions on Computational Logic (TOCL), Volume 4 Issue 4

Full text available:  pdf(374.38 KB)

Additional Information: full citation, abstract, references, citing

Modern distributed systems include a class of applications in which non-functional properties are important. In particular, these applications include multimedia facilities where real time constraints are critical to functioning. In order to specify such systems it is necessary to describe that even in the presence of nondeterministic distributions; stochastic automata have emerged as a useful technique by which such systems can be formally verified. However, stochastic descent ...


Keywords: Distributed systems, model checking, stochastic automata

## 60 Performance evaluation of an adaptive-rate MPEG encoder matching intse

Alfio Lombardo, Giovanni Schembra

February 2003

IEEE/ACM Transactions on Networking (TON), Volume 11 Issu

Full text available:  pdf(1.38 MB)

Additional Information: full citation, abstract, reference

Promoting the evolution of the Internet from a simple data network to a true multi-service network is a challenging task. To this end, the Internet Engineering Task Force (IETF) has set up several Differentiated Services (DiffServ) Working Groups, with the goal of defining a new framework for traditional best-effort datagram delivery and additional enhanced quality of service framework, in particular ...




Keywords: MPEG, Markov modeling, TSpec, performance evaluation, quantizer s

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